Colorado Broadband Data and Development Program
Kick-Off Meeting
February 2 & 9, 2010

Jon Gottsegen, State GIS Coordinator & Diane Simmons, Program Manager

Outline

- Overview of ARRA Grant
- Project Approach and Status
- Broadband Data Development
- Data Validation
- Planning
- Outreach Activities
- Broadband Provider Data & NDA Process
- Critigen/Broadmap Presentation

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Overview of ARRA Grant

- $2.1 million awarded to OIT through the NTIA's State Broadband Data & Development Grant Program (SBDDGP)
  - $1.6 million for broadband data collection and mapping over a two-year period.
  - $500,000 for planning over a five-year period.
- Award period began November 2009.
- Recovery Act calls for a national broadband inventory map to be created no later than February 2011.
- Complete state data set to NTIA by 3/31/2010.

Previous Mapping Project & CBDDP

- Previous project has provided more data than state has ever had.

- Current project will continue data gathering and refine data.

- Current project adds data new requirements from NTIA:
  - Additional service attributes
  - Street segment, address ranges in large blocks
  - Average weighted speed by MSA/RSA
  - Middle-mile points
  - Community Anchor Institutions

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Project Approach

- Hire contractor for collection and processing of broadband service data. Requirements include:
  - Deliver data in format and with content required by NTIA
  - Deliver additional geographic data
  - All data and potential code owned by OIT
  - Provide data from broadband providers
- Hire In House Staff
  - Program Manager (1.0 FTE)
  - Broadband Data Manager (1.0 FTE)
  - Communications Manager (1.0 FTE)
  - Quality Assurance Manager (0.5 FTE)
- Connect Colorado will serve as foundation for project and facilitate prioritization of data gathering. Results were submitted to NTIA to meet November 1st data delivery deadline.

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Project Status

- Data collection awarded to Critigen/Broadmap

- Refining specific scope of work

- Expected data collection start within three weeks.

- Hired Program Manager: Diane Simmons, diane.simmons@state.co.us, 303-764-7914

- Interviewing other positions.

Data Development – Broadband Service Areas

- Address Specific Data
  - Wireline service
  - Two deliverables:
    - Census block lists
    - Street segment lists (census blocks > 2 sq. mi.)
  - Geoprocessing to identify blocks is simple once service areas are identified
  - May receive addresses w/service, service areas, information to infer service areas

- Non-Address Specific
  - Wireless data
  - Geographic data set of service areas

OIT is requiring contractor to deliver source data to OIT.

This is critically important for data validation and map accuracy.

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Data Development – Other

- Middle-Mile Infrastructure
  - Data from providers
  - Infer infrastructure presence

- Weighted Average Speed
  - Data will be collected when gathering service area data from providers
  - Infer customers at speed tiers

- Community Anchor Institutions
  - Start with institution information from OIT
  - State has complete data for health facilities, schools, libraries
  - State has incomplete data for police, fire, government buildings
  - Will leverage efforts to build complete data sets for facilities

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Data Validation

- Goal is to ensure data is of highest quality and that OIT can respond to questions about results.

- Data validation requires statistically significant testing.

- First step involves duplicating contractor's process and comparing results to final data delivered to OIT.

- Sample speeds in potentially spatially stratified sampling scheme.
  - Interviews (through outreach from planning efforts)
  - Web site feedback through site hosted by OIT

- Inferential models to guide/assist with validation.

- 95% confidence for statistical tests.

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Planning

- Primary effort around local technology planning teams
  - 4 areas in state: 3 counties/regions, 1 tribal area
- Work closely with local stakeholders to:
  - Develop planning teams
  - Develop mechanisms for assessing demand, adoption, computer usage
  - Bring availability data to local stakeholders for review and dissemination
- Identify successful techniques/lessons learned in developing teams to generalize across the state
- Assist other regions in establishing teams

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Outreach

- This is primarily a function of the Communications Manager (currently being interviewed).

- Outreach important for successful development, validation and application of data.
  - Publicize results of mapping and drive users to web site
  - Survey

- Field visits, press, web presence, community organizations.

- Assistance from Innovation Council.

Broadband Provider Data

- OIT requesting broadband provider data through contractor. <u>This is critical for validating data received from contractor.</u>

- OIT understands that these data are considered sensitive and that providers are concerned about data being made public.

- CORA protects these data as "trade secrets." Based on a review by Governor's Office attorney, we can treat these data as confidential and protected from disclosure under ***Section 24-72-204(3)(a)(IV), C.R.S.***, and protect it to the maximum extent permitted by law.

- OIT can give providers notice and an opportunity to defend any CORA litigation seeking disclosure of the information.

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NDA Process

- Critigen sends NDA

- Critigen-Provider sign NDA

- Points of contact:
  - Critigen/Broadmap

    Frank Orr, 720-989-1966, Frank. Orr@Critigen.com
  - State –

    Diane Simmons, 303-764-7914

    Diane.Simmons@state.co.us

Need provider POC. If have POC information, please include on sign-in sheet or send to COBroadband@state.co.us

What's Next?

- Timeline

- Formal letter

- Follow-up via email

  – Need appropriate contact information

  – Data package – file names, layouts, samples, SFTP information

- Technical meeting – walkthrough with provider

- Feedback mechanisms

- Repeatability

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Data Collection

- The end deliverables for NTIA are maps/lists of broadband data for each state, which must have geographic reference in order to display the collected information on a map. Therefore, all data we receive must be able to be converted to geographic format (lat/longs or physical addresses).

- You will be able to utilize the sample files you will be provided with to build the files you submit to Critigen/Broadmap.

- This project is an ongoing process. While the initial collection of data is our primary objective at this point, we will need to collect this data every six months going forward.

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File List

- **Broadband Service Area**

  - *BBServAddr_SampleFile.csv* – This is a list of all possible addresses that your company can provide broadband service to within 5 days.

  - *BBServStrteet_sampleFile.csv* – Broadband coverage may also be reported at the street level.

  - *BBServBlock_SampleFile.csv* – Broadband coverage may also be reported at the census block level.

- **Wireless Providers**

  - *BBWireless_Sample.zip* –The zipped-up shapefile contains 4 polygons (wireless coverage areas) that have detailed attribution about the provider and the wireless service that is represented in each polygon.

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File List

- **Broadband Middle Mile**

  - *BBMidMile_SampleFile.csv* – This is the expected format for Middle Mile locations within a given providers network.

- **Broadband Weighted Average Speeds**

  - *BBSubscriber_SampleFile.csv* – This is the expected format for the speed tier and subscriber information.

- **Other Files**

  - *WinSCP_Instructions.doc* – Instruction doc on how to download, install, and run our recommended Secure FTP client software.

  - *File Structures-Formats-Transfers.doc* – Overview of the file format, structure and transfer mechanisms for completing this request.

  - *Mapping_NOFA.pdf* – The Notice of Fund Availability outlining the Broadband Mapping Initiative and Requirements set forth by the NTIA (for your reference).

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Thank you.

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